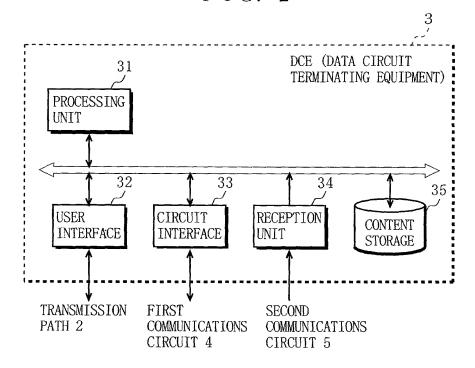
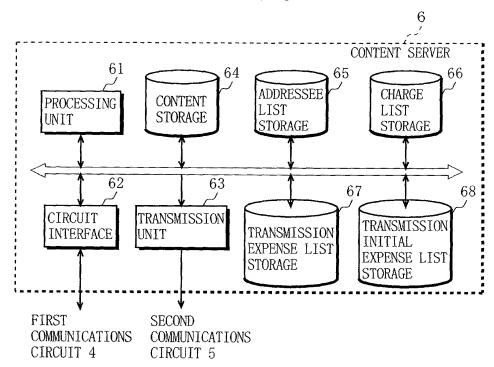


F I G. 2



F I G. 3



F I G. 4

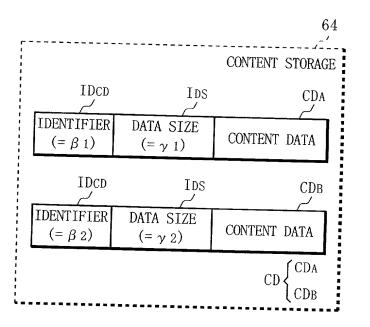


FIG. 5

. STORAGE			VR11	$\left. \int_{0}^{\infty} VR_{12} dx \right $	brace	UR11 UR12 UR13
ADDRESSEE LIST STORAGE		TRANSMISSION IDENTIFIER COMMUNICATIONS EXPENSE TC IDUSER CIRCUIT FLAG FCIR				$UR1 \left\{ \begin{array}{l} UR11 \\ UR12 \\ UR13 \end{array} \right.$
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		IDENTIFIER IDUSER	$\alpha$ 2- $\alpha$ 500 (499 IDENTIFIERS IDUSER IN TOTAL)	g • •	α 10	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		TRANSMISSION EXPENSE TC	¥450	¥480	¥530	
		TIME LIMIT LT	FEBRUARY 17 18:00	FEBRUARY 16 20:00	FEBRUARY 14 19:00	
LDEST	LIST	IDENTIFIER IDCD	β1	β1	β 1	
	ADDRESSEE LIST	DL CONDITION NUMBER NDL	П	2	8	

F I G. 6

		66 '
		HARGE LIST TORAGE
CHARGE LIS	Γ	
IDENTIFIER IDUSER	CHARGE INFORMA IPAY	TION
α1	¥1500	
•	•	

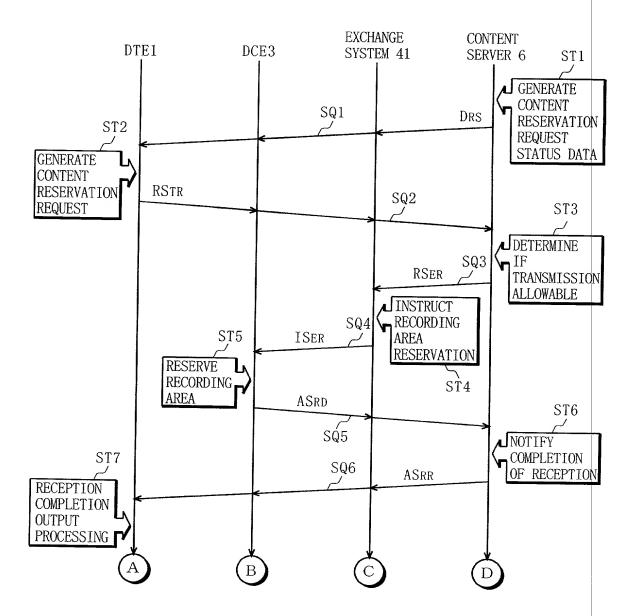
F I G. 7

TRANSMISSION EXPENS LTC LIST STORAGE					
TRANSMISSION EXP	PENSE LIST				
THE NUMBER OF USERS NUSER	TRANSMISSION EXPENSE TC				
500≦Nuser5	TC5=(¥400)				
100≦NUSER4<500	TC4=(¥450)				
50≦Nuser3<100	TC3=(¥480)				
20≦Nuser2<50	TC2=(¥530)				
Nuser1<20	TC1=(¥550)				

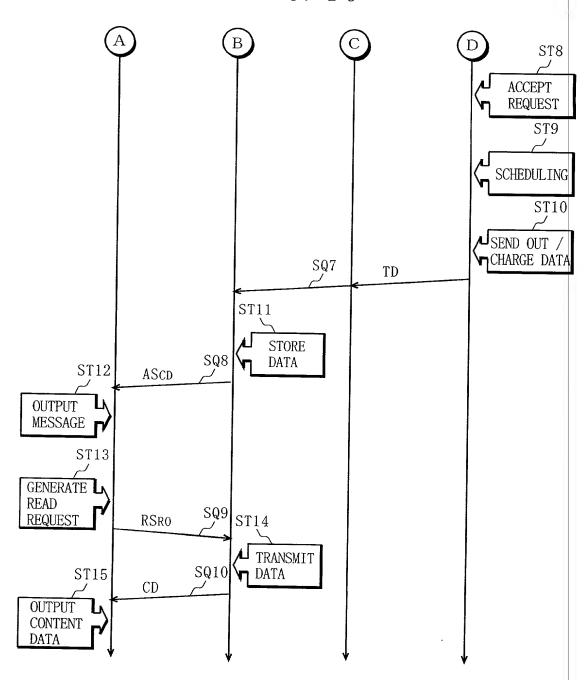
F I G. 8

	68	
Litc 	TRANSMISSION INITIA EXPENSE LIST STORAG	
TRANSMISSION	INITIAL EXPENSE LIST	
TIME MARGIN TM	TRANSMISSION INITIAL EXPENSE ITC	
168≦TM5	ITC5=(¥400)	
72≦TM4<168	ITC4=(¥450)	
24≦TM3<72	ITC3=(¥480)	
12≦TM2<24	ITC2=(¥530)	
TM1<12	ITC1=(¥550)	

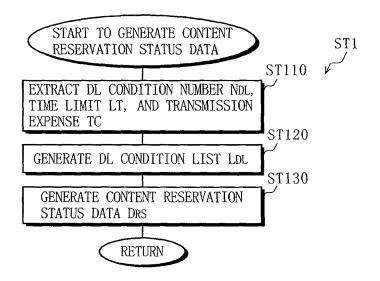
F I G. 9



F I G. 10



F I G. 11



F I G. 12

DL CONDITION NUMBER NDL	TIME LIMIT LT	TRANSMISSION EXPENCE TC			
1	FEBRUARY 17 18:00	¥450	                 		
2	FEBRUARY 16 20:00	¥480	}LDL2		
3	FEBRUARY 14 19:00	¥530	}LDL3		
© CONTENT DATA CDA CONTENT DATA CDB  LDL {LI LI L					

	1 0						
FIG. 1	I 3 a IDTR ノ	IDser ノ	VER	IDUSER	NI کہ	pl RS	STR
IDENTIFIER (FOR CONTE RESERVATION	NT 1	DENTIFIER (ADDRESSEE)		FIER DL ( SSER) NUM		ON	
FIG. 1	1 3 b						
]	IDTR	IDser	VER	IDUSER	_ IDci	D LT	RSTR
IDENTIFIER (FOR CONTER	NT 1	DENTIFIER (ADDRESSEE)				TIME	V
FIG. I	13 c IDRER		ID رہ	USER	IDS	RSER /	
IDENTIFII (FOR AREA	ER A RESERVE RE		ENTIFI DDRESS		SIZE	V	
	13d IDIER		ID	USER	IDS	ISER /	
IDENTIFIER			DENTIFIE DDRESS		SIZE		
FIG. 1	13e		II رہے	OUSER I	Dservef	R ASRD	
IDENTIFIER (FOR POSIT	IVE ACKNOWL			ER IDENT ER) (ADDR			
FIG. 1	13 f IDRR			IDSERVE	R I	Duser	ASRR
IDENTIFIER (FOR RECEP	TION COMPLE	TION NOTICE			ENTIFII DDRESSI	ER	
	13g	IDo	CD	IDus	ER	IDserve	R CD TD
IDENTIFIER	الـــ	IDENTIFIE	CR II	DENTIFIER DDRESSEE	IDENT		ONTENT

FIG. 14

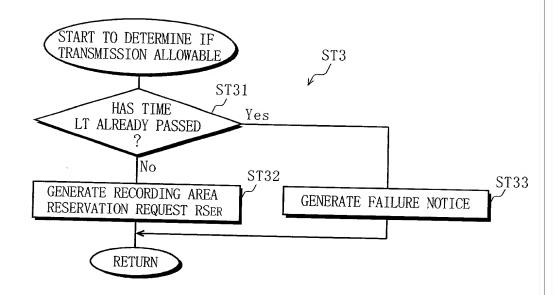
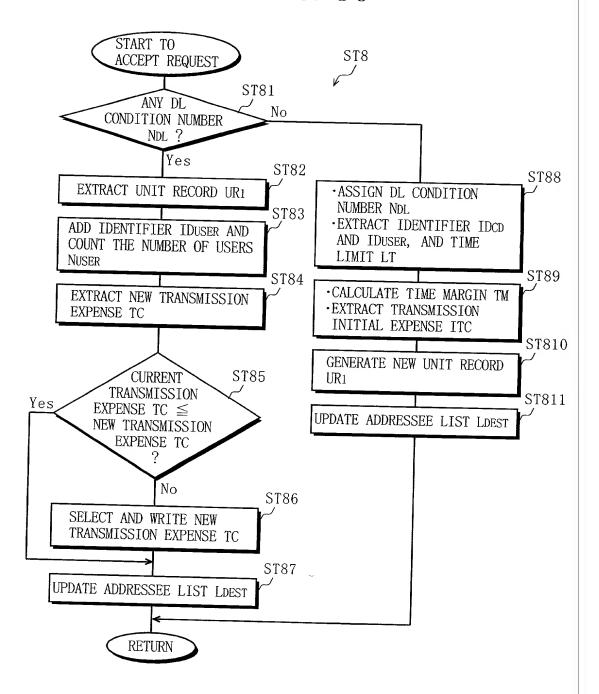


FIG. 15



F I G. 16a

UR11

DL CONDITION NUMBER NDL	1DCD	TIME LIMIT LT	TRANSMISSION EXPENSE TC		COMMUNICATIONS CIRCUIT FLAG FCIR
1	β1	FEBRUARY 17 18:00		α 2- α 500 499 IDENTIFIERS IDUSER IN TOTAL	

F I G. 16b

UR11

DL CONDITION NUMBER NDL	TDCD	TIME LIMIT LT	TRANSMISSION EXPENSE TC		COMMUNICATIONS CIRCUIT FLAG FCIR
1	β1	FEBRUARY 17 18:00		α 1- α 500 500 IDENTIFIERS IDUSER IN TOTAL	

F I G. 16 c

UR14 سر

DL CONDITION NUMBER NDL	TDCD	TIME LIMIT LT	TRANSMISSION EXPENSE TC		COMMUNICATIONS CIRCUIT FLAG FCIR
4	β1	FEBRUARY 15 20:00	¥480	α 1	

F I G. 17

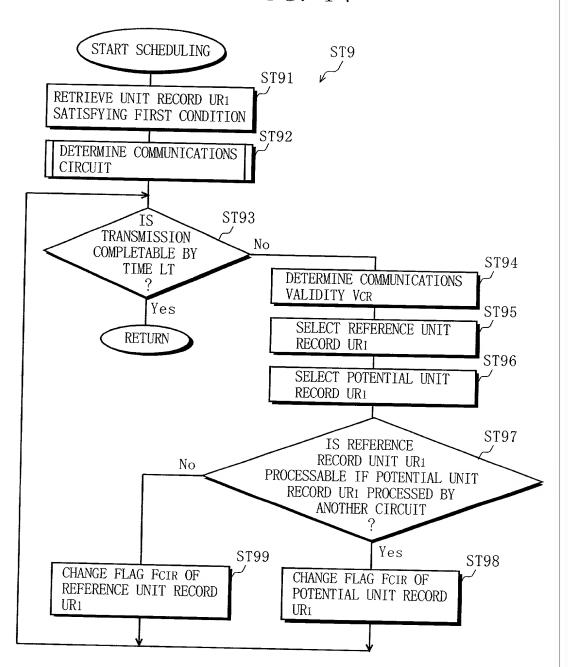
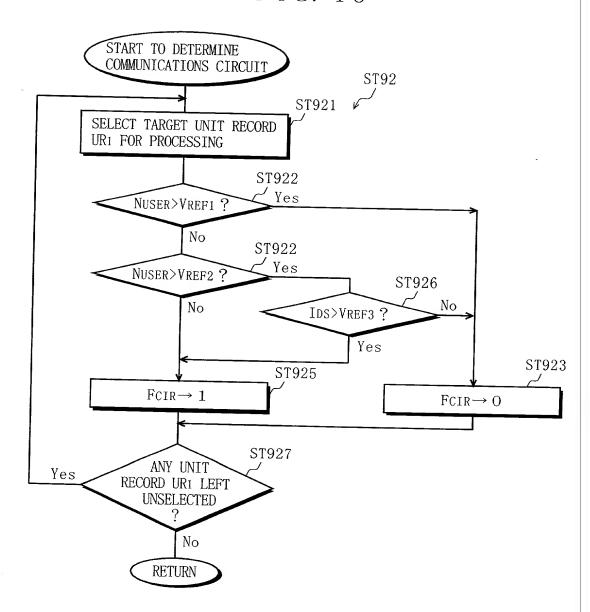


FIG. 18



## F I G. 19 a

UR11

DL CONDITION NUMBER NDL	IDCD		TRANSMISSION EXPENSE TC		COMMUNICATIONS CIRCUIT FLAG FCIR
1	β 1	FEBRUARY 17 18:00	¥400	α 1- α 500 (500 IDENTIFIERS IDUSER IN TOTAL)	0

## FIG. 19b

UR12

			<del>,                                      </del>		
DL CONDITION NUMBER NDL	IDENTIFIER IDCD		TRANSMISSION EXPENSE TC		COMMUNICATIONS CIRCUIT FLAG FCIR
2	β1	FEBRUARY 16 20:00	¥480	α 6 •	1

F I G. 20a

	UNIT RECORD UR1	COMMUNICATIONS VALIDITY VCR			
	UR1i	VCRi (=80)			
	UR1j	VCRj(=40)			
	UR1k	VCRk (=50)			
	UR11	VCR1 (=20)			
	UR1m	VCRm (=70)			•
	UR1 i	UR1 j	UR11	k UR1	1 UR1m
		NIT UNI' ECORD RECO		UNIT RECORD	UNIT RECORD
1	EŤi	LTi ETj LTj	LTk ET	k LT1 E1	$\frac{1}{C1}  \frac{1}{ETm}  \frac{1}{LTm} \rightarrow t$

FIG. 20b

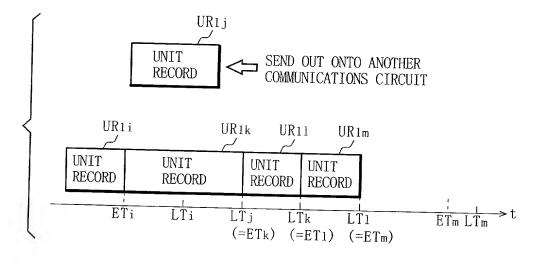


FIG. 21

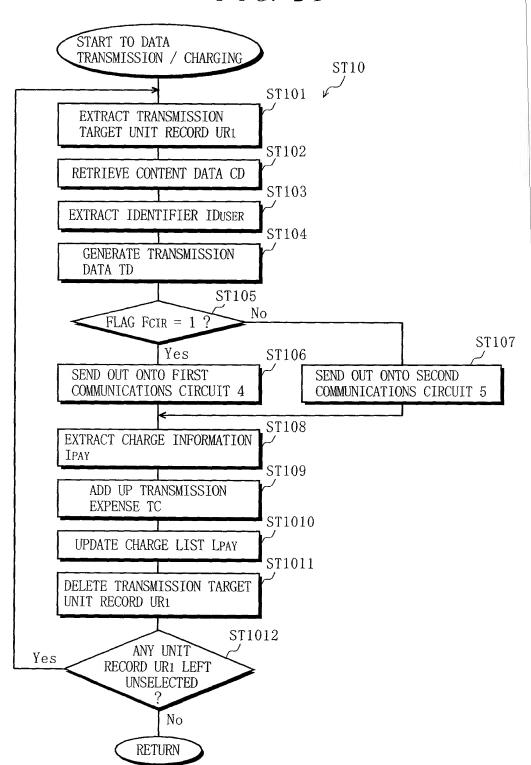


FIG. 22

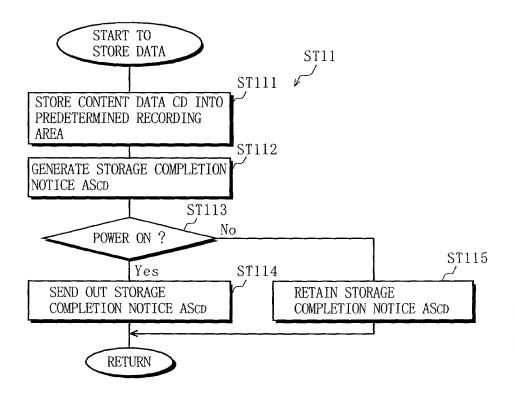


FIG. 23a

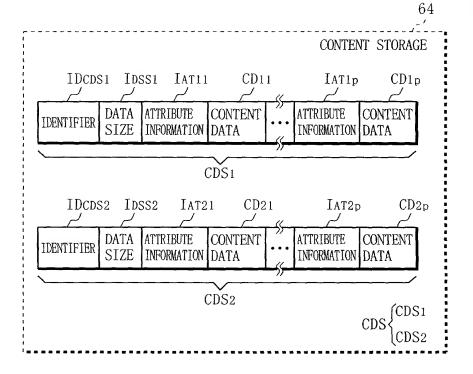


FIG. 23b

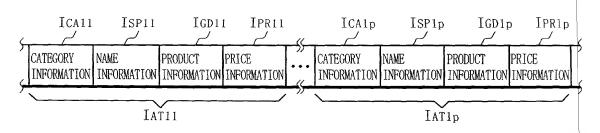


FIG. 23c

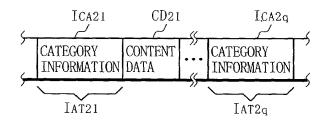


FIG. 24

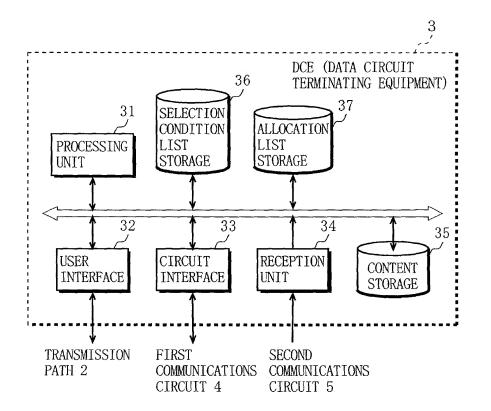


FIG. 25

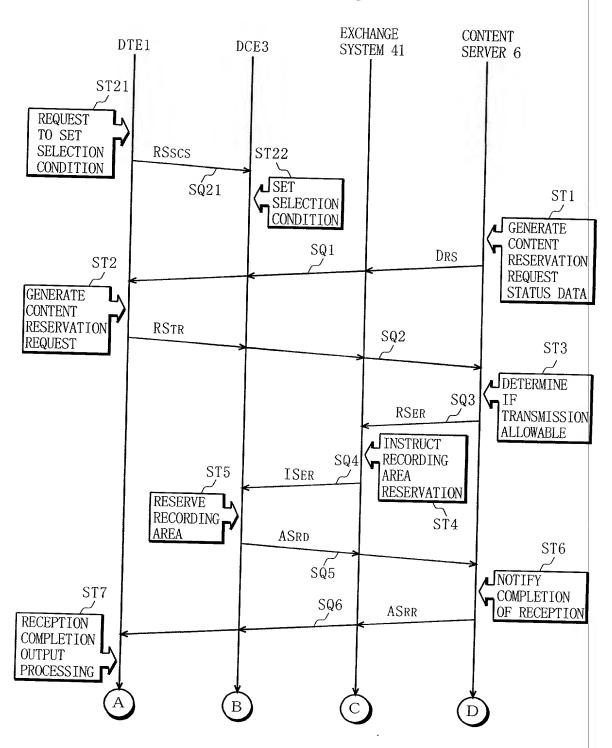


FIG. 26 ST8 ACCEPT REQUEST ST9 SCHEDULING ST10 SEND OUT / CHARGE DATA SQ7 TD ST11' STORE SQ8 DATA ST12 ASCD ST23 OUTPUT MESSAGE DELETE DATA ST13 GENERATE READ SQ9 REQUEST **RSRO** ST14' TRANSMIT DATA SQ10 ST15 CDOUTPUT CONTENT DATA

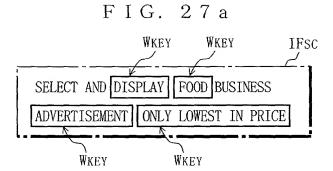


FIG. 27b

36 SELECTION CONDITION LIST STORAGE Lsc SELECTION CONDITION LIST SELECTION SELECTION CONDITION SC CONDITION NUMBER NSC SELECT FOOD BUSINESS SELECTION ADVERTISEMENT ONLY LOWEST CONDITION No. 1 IN PRICE **SELECTION** NOT SELECT REAL-ESTATE CONDITION No. 2 BUSINESS ADVERTISEMENT SELECT ALL ELECTRIC SELECTION CONDITION No. 3 APPLIANCES ADVERTISEMENT NOT SELECT ENTERTAINMENT SELECTION CONDITION No. 4 **NEWS** SELECTION SELECT ALL NEWS, ENTERTAINMENT EXCLUSIVE CONDITION No. 5

FIG. 28

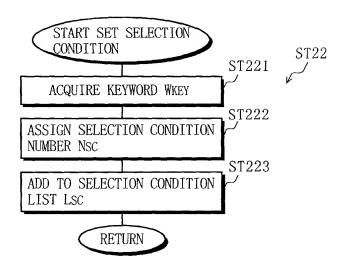


FIG. 29

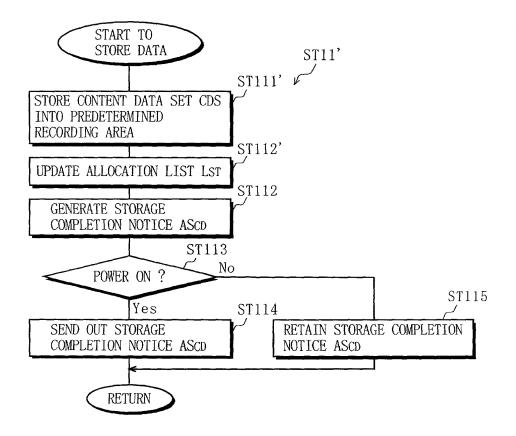
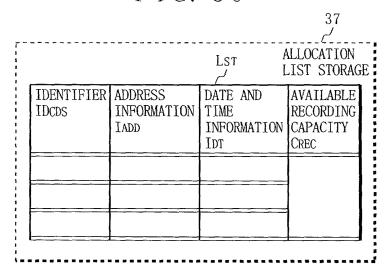
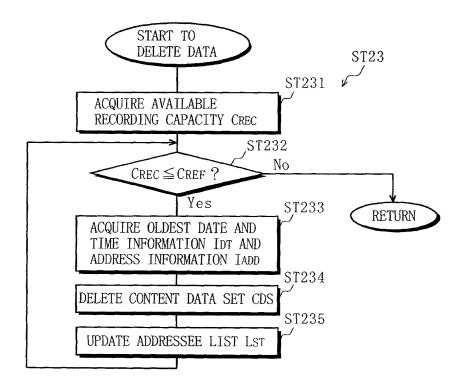


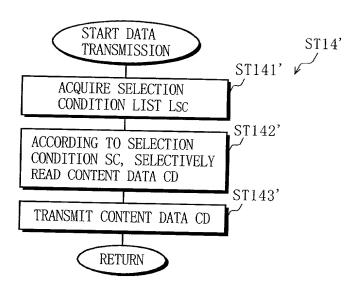
FIG. 30



F I G. 31



F I G. 32



CDS1   CDS1   CA13     ISP13     ISP14   ISP14   ISP14   ISP14   CD14	
CONTENT DATA SET  IDENTIFIER  INENTIFIER  IDENTIFIER  INENTIFIER  ICAL  INTERNATION  CONTENT DATA  ICAL  INTERNATION  CONTENT DATA  ICAL  ICAL	CONTENT DATA SET  IDCDS2  IDCDS2  IDCDS2  FINANCE  CD22  CONTENT DATA  CD21  CONTENT DATA  CONTENT DATA  CONTENT DATA  CONTENT DATA  CONTENT DATA  CONTENT DATA  CONTENT DATA
m	

FIG. 33

FIG. 34

